

## Computer Science A, Advanced Placement

(COMP SCI AP)

4570

*Computer Science A, Advanced Placement* is a business course that provides students with the content established by the College Board. Topics include: object-oriented program design, program implementation, program analysis, standard data structures, standard algorithms, and computing in context. Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development.

- Recommended Grade Level: 11-12
- Recommended Prerequisites: Digital Communication Tools, Computer Applications, Algebra I, and Algebra II
- Credits: A two-credit course over two semesters
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- A Career Academic Sequence, Career-Technical program, or Flex Credit course
- Advanced Placement standards for this course must be used
- Highly recommended that teachers attend an in-depth workshop on Computer Science AP before teaching this course
- Teacher Requirements: <http://doe.in.gov/dps/licensing/assignmentcode>
- Career Cluster: This course may benefit students in career pathways in several career clusters; it is a recommended component for several career pathways in the Information Technology and Science, Technology, Engineering & Mathematics clusters
- Career pathway information: <http://www.doe.in.gov/octe/facs/CrrClstrGrid.html>